What is claimed is:

1. A compound of Formula (WHH)

$$O = \begin{pmatrix} R^8 & Y^2 - J \\ Y^1 & Z^1 \\ X & X^1 \end{pmatrix}$$
 (WHH)

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wherein

 R^1 is H, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} thioalkyl, cyano, halo, C_{3-7} cycloalkyl, $-C_{1-6}$ alkylene- C_{3-7} cycloalkyl, C_{2-6} alkenyl or C_{3-6} alkynyl;

10 R⁸ is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

 X^1 is N;

 Y^1 is N;

15 Y^2 is CH_2 ;

J is CH₂ or a bond;

Z¹ is CH₂ or C(O); and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-6} thioalkyl, C_{1-4} haloalkyl, halogen, $N(C_1-C_4$ alkyl)₂ and CN.

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2. A process for preparing a compound of Formula (WHH)

$$O = \begin{pmatrix} R^8 & Y^2 - J \\ Y^1 & Z^1 \\ X & X^1 \end{pmatrix}$$
 (WHH)

wherein

R¹ is H, C₁₋₆alkyl, C₁₋₆haloalkyl, C₁₋₆alkoxy, C₁₋₆thioalkyl, cyano, halo, C₃₋₇cycloalkyl, -C₁₋₆alkylene-C₃₋₇cycloalkyl, C₂₋₆alkenyl or C₃₋₆alkynyl;

R⁸ is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

10 X^1 is N;

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 Y^1 is N;

 Y^2 is CH_2 ;

J is CH₂ or a bond;

Z¹ is CH₂ or C(O); and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₆thioalkyl, C₁₋₄haloalkyl, halogen, N(C₁-C₄alkyl)₂ and CN;

comprising reacting a compound of Formula (UFF)

$$Z^1$$
 Y^2 Br (UFF)

wherein

Z, Z¹, J and Y² are defined as for Formula (WHH);

with a compound of Formula (UFF')

$$O \xrightarrow{\mathbb{R}^8} Y^1 \longrightarrow Br \qquad (UFF')$$

5 wherein

R¹, R⁸, X, Y, X¹ and Y¹ are defined as for Formula (WHH);

in the presence of a suitable base and polar aprotic solvent to yield a compound of Formula (VGG)

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wherein

 R^1 , R^8 , X, Y, X^1 , Y^1 , Y^2 , J, Z^1 and Z are defined as for Formula (WHH);

- and reacting said compound of Formula (VGG) with a high-boiling point polar aprotic solvent and a suitable silver salt under suitably high temperature.
 - 3. A compound of Formula (Z')

$$O = \begin{pmatrix} R^8 & Y^2 & Z^1 \\ Y & Z & Z^1 \\ X & X^1 & Z \end{pmatrix}$$
 (Z')

wherein

R¹ is H, C₁₋₆alkyl, C₁₋₆haloalkyl, C₁₋₆alkoxy, C₁₋₆thioalkyl, cyano, halo, C₃₋₇cycloalkyl, -C₁₋₆alkylene-C₃₋₇cycloalkyl, C₂₋₆alkenyl or C₃₋₆alkynyl;

R⁸ is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

10 X^1 is N;

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 Y^1 is N;

Y² is CH or CR⁵;

R⁵ is selected from the group consisting of -CN, -C₁₋₄alk(en)ylene-CN, halo, C₁₋₆alkyl, C₂₋₆alkenyl, C₃₋₆alkynyl, C₁₋₆haloalkyl, aryl, -C₁₋₄alk(en)ylene-aryl,
-C₁₋₄alk(en)ylene-heterocyclo, heterocyclo, -C₁₋₄alk(en)ylene-amino, -C₁₋₄alkylene-amino-C₁₋₄alkyl, aryl-amino, -amino-(C₁₋₆alk(en)yl)₁₋₂, amino-aryl, -amino-heterocyclo, C₁₋₆alkoxy, -Oaryl and -O-heterocyclo;

 Z^1 is C(O); and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₆thioalkyl, C₁₋₄haloalkyl, halogen, N(C₁-C₄alkyl)₂ and CN.

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4. A process for preparing a compound of Formula (Z')

$$Q = \begin{pmatrix} R^8 & Y^2 & Z^1 \\ Y^1 & Z & Z \\ X & X^1 & Z \end{pmatrix}$$
 (Z')

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wherein

R¹ is H, C₁₋₆alkyl, C₁₋₆haloalkyl, C₁₋₆alkoxy, C₁₋₆thioalkyl, cyano, halo, C₃₋₇cycloalkyl, -C₁₋₆alkylene-C₃₋₇cycloalkyl, C₂₋₆alkenyl or C₃₋₆alkynyl;

 R^8 is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

 X^1 is N;

15 Y^1 is N;

Y² is CH or CR⁵;

R⁵ is selected from the group consisting of -CN, -C₁₋₄.

alk(en)ylene-CN, halo, C₁₋₆alkyl, C₂₋₆alkenyl, C₃.

6alkynyl, C₁₋₆haloalkyl, aryl, -C₁₋₄alk(en)ylene-aryl,

-C₁₋₄alk(en)ylene-heterocyclo, heterocyclo, -C₁.

4alk(en)ylene- amino, -C₁₋₄alkylene-amino-C₁.

4alkyl, aryl-amino, -amino-(C₁₋₆alk(en)yl)₁₋₂,
amino-aryl, -amino-heterocyclo, C₁₋₆alkoxy, -O
aryl and -O-heterocyclo;

 Z^1 is C(O); and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₆thioalkyl, C₁₋₄haloalkyl, halogen, N(C₁-C₄alkyl)₂ and CN;

comprising reacting a compound of Formula (X')

$$HZ$$
 Z^1
 Y^2
 Br
 (X')

10 wherein

 Z, Z^1 and Y^2 are defined as for Formula (Z');

with a compound of Formula (UFF')

$$O \xrightarrow{\mathbb{R}^8} Y^1 \longrightarrow Br \qquad (X ")$$

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wherein

 R^1 , R^8 , X, Y, X^1 and Y^1 are defined as for Formula (Z');

in the presence of a suitable base and polar aprotic solvent to yield a compound of

Formula (Y')
$$R^{8}$$

$$Y^{2} - Z^{1}$$

$$R^{1}$$

$$X - X^{1}$$

$$Y^{2} - Z^{1}$$

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wherein

 R^1 , R^8 , X, Y, X^1 , Y^1 , Y^2 , Z^1 and Z are defined as for Formula (Z');

and reacting said compound of Formula (Y') with a high-boiling point polar aprotic solvent and a suitable silver salt under suitably high temperature.

5. A compound of Formula (AA')

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$$O = \begin{pmatrix} R^8 & Y^2 & Z^1 \\ Y^1 & Z & Z^1 \\ X & X^1 & Z^1 \end{pmatrix}$$
 (AA')

wherein

R¹ is H, C₁₋₆alkyl, C₁₋₆haloalkyl, C₁₋₆alkoxy, C₁₋₆thioalkyl, cyano, halo, C₃₋₇cycloalkyl, -C₁₋₆alkylene-C₃₋₇cycloalkyl, C₂₋₆alkenyl or C₃₋₆alkynyl;

R⁸ is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

15 X^1 is N;

 Y^1 is N;

Y² is CH or CR⁵;

R⁵ is selected from the group consisting of -CN, -C₁₋₄.

alk(en)ylene-CN, halo, C₁₋₆alkyl, C₂₋₆alkenyl, C₃₋₆alkynyl, C₁₋₆haloalkyl, aryl, -C₁₋₄alk(en)ylene-aryl,
-C₁₋₄alk(en)ylene-heterocyclo, heterocyclo, -C₁₋₄alk(en)ylene-amino, -C₁₋₄alkylene-amino-C₁₋₄alkyl, aryl-amino, -amino-(C₁₋₆alk(en)yl)₁₋₂, amino-aryl, -amino-heterocyclo, C₁₋₆alkoxy, -O-aryl and -O-heterocyclo;

 Z^1 is CR^7 ;

wherein R⁷ is chloro or bromo; and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₆thioalkyl, C₁₋₄haloalkyl, halogen, N(C₁-C₄alkyl)₂ and CN.

6. A process for preparing a compound of Formula (AA')

$$0 \xrightarrow{\mathbb{R}^{8}} Y^{1} \xrightarrow{\mathbb{Z}^{1}} \mathbb{Z}^{1}$$

$$\mathbb{R}^{1} \times \mathbb{X}^{1}$$

$$(AA')$$

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wherein

 R^1 is H, $C_{1\text{-}6}$ alkyl, $C_{1\text{-}6}$ haloalkyl, $C_{1\text{-}6}$ alkoxy, $C_{1\text{-}6}$ thioalkyl, cyano, halo, $C_{3\text{-}7}$ cycloalkyl, $-C_{1\text{-}6}$ alkylene- $C_{3\text{-}7}$ cycloalkyl, $C_{2\text{-}6}$ alkenyl or $C_{3\text{-}6}$ alkynyl;

R⁸ is O-C₁₋₄alkyl, -N(CH₃)(OCH₃) or other suitable leaving group;

X is C;

Y is C;

 X^1 is N:

Y¹ is N;

 Y^2 is CH or CR^5 ;

R⁵ is selected from the group consisting of -CN, -C₁₋₄₋ alk(en)ylene-CN, halo, C₁₋₆alkyl, C₂₋₆alkenyl, C₃₋₆alkynyl, C₁₋₆haloalkyl, aryl, -C₁₋₄alk(en)ylene-aryl, -C₁₋₄alk(en)ylene-heterocyclo, heterocyclo, -C₁₋₄alk(en)ylene- amino, -C₁₋₄alkylene-amino-C₁₋₄alkyl, aryl-amino, -amino-(C₁₋₆alk(en)yl)₁₋₂, -

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amino-aryl, -amino-heterocyclo, C_{1-6} alkoxy, -O-aryl and -O-heterocyclo;

 Z^1 is CR^7 ;

wherein R⁷ is chloro or bromo; and

Z is N-V, wherein V is phenyl, 2-pyridyl or 3-pyridyl substituted with two to three of the same or different substitutents selected from the group consisting of C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₆thioalkyl, C₁₋₄haloalkyl, halogen, N(C₁-C₄alkyl)₂ and CN;

comprising reacting a compound of Formula (Z')

wherein

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$$R^1, R^8, X, Y, X^1, Y^1, Y^2$$
, and Z are defined as for Formula (AA'); and

 Z^1 is C(O);

with phosphoryl trichloride or phosphoryl tribromide, neat or with a suitable solvent and without a base or with a suitable base.